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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,127	05/12/2006	Axel Stender	056982/70	6256
31013 7590 12/24/2009 KRAMER LEVIN NAFTALIS & FRANKEL LLP INTELLECTUAL PROPERTY DEPARTMENT			EXAMINER	
			SPISICH, GEORGE D	
	1177 AVENUE OF THE AMERICAS NEW YORK, NY 10036		ART UNIT	PAPER NUMBER
			3616	
			NOTIFICATION DATE	DELIVERY MODE
			12/24/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
	10/579,127	STENDER ET AL.		
Office Action Summary	Examiner	Art Unit		
	GEORGE D. SPISICH	3616		
The MAILING DATE of this communication a	ppears on the cover sheet with	the correspondence address		
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statuenty reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 1.136(a). In no event, however, may a reply of will apply and will expire SIX (6) MONTH tute, cause the application to become ABAN	TION. / be timely filed S from the mailing date of this communication. DONED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>Sep</u> This action is FINAL . 2b) ☑ The Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters			
Disposition of Claims				
4) ☐ Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) 3-7 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2 and 8-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	n from consideration.			
Application Papers				
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) as Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the B	ccepted or b) objected to by seed rawing(s) be held in abeyance ection is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/N	nmary (PTO-413) Mail Date rmal Patent Application		

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 21, 2009 has been entered.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-2 and 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Griffiths (U.S. 5,273,308) in view of Green et al. (U.S. Pub. App. 2005/0146098 A1).

Griffiths discloses a valve device for a vehicle air-suspension system, said valve device comprising:

a manually actuatable air-admission valve (Fig. 5, Either element 65 or 66, depending on whether vehicle is being lowered or raised) for admission of air to

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the air-suspension bellows (Fig. 5, Elements 1, 1A, 2, 2A, 3, and 3A) of the air-suspension device,

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a manually actuatable vent valve (Fig. 5, Either element 65 or 66, depending on whether vehicle is being lowered or raised; Col. 7, Lines 34-35 – also, the applicant should note that the claim as drafted does not currently require that one of these valves function as an air-admission valve at the same time as the other of the two valves functions as a vent valve) for venting the air-suspension bellows (Fig. 5, Elements 1, 1A, 2, 2A, 3, and 3A) and

a first actuatable valve (Fig. 5, Element 6 or 7) and,

a second actuatable valve (Fig. 5, Element 6 or 7).

Regarding the function of above device the applicant is directed to Col. 7, Line 1 to Col. 8, Line 8, wherein the function of the device is explained.

Griffiths does not specifically disclose that said system is disclosed in a housing, nor does it specifically state that valves 6 and 7 are electrically actuatable.

Green discloses the use of a vehicle suspension having valves and related components that are stored inside of a housing (Figs. 4-5, Element 13 and Elements 70, 72, 76, 78). In addition Green also discloses the use of electrically actuated valves (elements 70, 72, 76, and 78). The applicant should note that these valves are considered to be electrically actuated valves on the basis that they are controlled through the use of an electronic control unit (Element 12) and are also described as being solenoid valves (See, Pg. 3, Para. 0051-0053). The applicant should note that a solenoid is a current-carrying coil of wire that acts like a magnet when a current passes

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through it, wherein said solenoid forms a part of an assembly used as a switch, consisting of a coil and a metal core free to slide along the coil axis under the influence of the magnetic field. See, Definition of Solenoid, American Heritage ® Dictionary of the English Language: Fourth Edition (2000), available at

http://www.bartleby.com/61/70/S0547000.html (last visited on 10/7/08).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Griffiths such that all of the valve components were placed inside a housing, in view of the teachings of Green, so as to make it easier for one to swap out an entire unit, so as to make repair quicker and easier, should the device malfunction, thereby reducing labor costs. Moreover, since it is old well known to place components inside of a housing, modifying Griffiths, such that all of the components were placed inside of a housing, in view of the teachings of Green, would have been obvious because all of the elements are old and well known and are being used in the combination according to their established functions and in a predictable manner. Similarly, with regard to the use of electrically actuated valves, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Griffiths to use electrically actuated valves, for the first and second actuated valves, since it is known to use electrically actuated valves (solenoid valves) and doing so is no more than the predictable use of prior art elements according to their established functions. Further the use of said electrically actuated valves would be desirable, since the use of an electrically signal to actuate the valves would provide a reliable and easy to construct means for controlling said valves.

With respect to claim 2, the combination of Griffiths in view of Green further discloses that said housing includes separate compressed-air ports for supplying compressed air from a pressurized-fluid source to said (i) first and second electrically actuatable valves and (ii) said manually actuatable air-admission valve and said manually actuated vent valve. The applicant should note that modifying Griffiths in view of the teaching of Green results in an apparatus wherein all of the valves and related structures are located in a housing that includes said ports (See, Fig. 4, of Green, wherein the use of ports on a housing are taught by at least elements 70a and 70b as well as elements 72a and 72b). Accordingly, when modifying Griffiths in view of Green, it would have been obvious to one of ordinary skill in the art at the time the invention to have included all of the necessary compressed air ports, so that one could make the device installable and operable within a vehicle having existing air suspension features.

Regarding claim 9, the combination of Griffiths in view of Green further discloses that said first electrically actuatable valve includes a compressed-air inlet in communication with an air-suspension valve of said vehicle air suspension system via a compressed-air port of said housing. As discussed above, the combination of Griffiths in view of Green teaches the use of compressed air inlets (ports).

With respect to claim 10, the combination of Griffiths in view of Green further discloses the use of an electronic control device for controlling said first and second electrically actuatable valves. The applicant should note the ECU (Element 12) of Green, which is incorporated into the combination of Green in view of Griffiths. The

application should further note that an electronic control device in the combination would merely be used as a means for taking inputs from the operator and vehicle and supplying electrical signals to operate the vehicle in the manner described by Col. 7, Line 1 to Col. 8, Line 8, of Griffiths, and would be a necessary part of operating a vehicle having electrically actuated valves, since as broadly defined, some electronic means would be required to control said electronically controlled valves.

Regarding claim 11, the combination of Griffiths in view of Green further discloses that said first electrically actuatable valve includes a compressed air inlet in communication with a pressurized fluid source via a compressed air port of said housing. Note the teaching of ports by Green, as discussed above, said ports would be incorporated into the combination of Griffiths in view of Green.

With respect to newly added claim 12, the term "directly" is sufficiently broad so as to read on the venting aspect of Griffiths in view of Green.

- 3. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Griffiths (U.S. 5,273,308) in view of Green et al. (U.S. Pub. App. 2005/0146098 A1) as applied to claims 1-2 and 9-11 above, and further in view of Cayzeele (U.S. Pub. App. 2003/0139861 A1) and Rensel (U.S. 6,036,179).
- 4. The combination of Griffiths in view of Green discloses all of the limitation of claim 8, except for the use of a contactlessly operating displacement sensor disposed in said housing for sensing the distance from said valve device from the road way.

 Cayzeele teaches the use of an active suspension control means having among other

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things a displacement sensor for measuring the distance from said device to the road way (Pg. 1, Para. 0003). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have further modified the combination of Griffiths in view of Green to utilize operating displacement sensor disposed in said housing for sensing the distance from said valve device from the road way, in view of Cayzeele, so as to enable height to be accurately measured, since measuring the distance to the roadway would provide an accurate measurement of the height of the vehicle. Regarding said sensor being placed in the housing, the applicant should note that Griffith in view of Green teaches placing the entire device in a housing. Accordingly, in adding an operating displacement sensor, it would also be obvious to include this component in the housing, so as to make the entire device easier to install and or replace in the event one of the components fails, thereby reducing labor costs for manufacture and repair. The applicant should finally, note that the combination of Griffith in view of Green, further in view of Cayzeele still does not clearly teach that said sensor operates contactlessly. Nevertheless, displacement sensors that operate contactlessly are old and well known. Rensel teaches the use of a contactlessly operable distance / height detecting unit (Element 48). Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have further modified the combination of Griffith in view of Green, further in view of Cayzeele, so as to utilize a contactlessly operating displacement sensor, in view of Rensel, since this would achieve the desirable result of reducing the number of parts required for the sensor and would also achieve the desirable result of decreasing the

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likelihood that an object such as road debris would contact the sensor, since no parts would be required to touch the road.

Response to Arguments

Applicant's arguments filed January 13, 2009 have been fully considered but they are not persuasive.

With respect to Applicant's argument that one of ordinary skill in the art would not substitute solenoid valves taught by Green into a system of Griffiths that relies on pneumatic valves, Examiner disagrees and maintains the rejection. It is Examiner's position that pneumatic and electrical systems in the vehicle suspension art would properly teach substitution and conversion as these systems, valves and components are well known and substituting or interchanging the valve systems and related components would have been obvious to one of ordinary skill in the vehicle suspension art.

With respect to Applicant's argument that the valves are not housed in a common housing, Examiner disagrees and maintains the rejection. To group known vehicle components in a common housing for protection, organization and assembly and repair would have been obvious to one of ordinary skill in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GEORGE D. SPISICH whose telephone number is

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(571) 272-6676. The examiner can normally be reached on Monday-Friday from 8:30 to

5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul N. Dickson can be reached on (571) 272-7742. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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/GDS/

Examiner, Art Unit 3616

December 16, 2009

/Paul N. Dickson/

Supervisory Patent Examiner, Art Unit 3616